PATENT COOPERATION TREATY

rion de INTERNATIONA	L SEARCHING AUTH	HORITY .		•
To: D. BENJAMIN FLIESLER ME	YER LLP			PCT -
FOUR EMBARG	CADERO CENTER			ITTEN OPINION OF THE
	CO, CA 94111-4156		INTERNATI	ONAL SEARCHING AUTHORITY
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	1 6 NOV 2005
Applicant's or ag	gent's file reference		FOR FURTHER	ACTION See paragraph 2 below
GENN01011WC	00			See paragraph 2 octow
International app	olication No.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US04/4202		13 December 2004 (13.		12 December 2003 (12.12.2003)
International Pat	ent Classification (IPC)	or both national classifica	ation and IPC	·
	3/48 and US Cl.: 702/1	9		
Applicant		•		
GNI LTD.		·		
1. This opinion	contains indications re	lating to the following iter	ms:	· ·.
Box	No. I Basis of the	e opinion		
	No. II Priority	•		·
F				
一		•	egard to novelty, inve	entive step and industrial applicability
∐ Box		ity of invention		·
Box		statement under Rule 43bis y; citations and explanation		to novelty, inventive step or industrial tatement
Box	No. VI Certain doo	cuments cited		··
Box	No. VII Certain def	fects in the international ap	pplication	
Box	No. VIII Certain obs	servations on the internation	onal application	·
			••	
2. FURTHER				
International Authority of	I Preliminary Examining ther than this one to be	ng Authority ("IPEA") e	xcept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) dered.
IPEA a wri	tten reply together, wh	nere appropriate, with an	nendments, before th	PEA, the applicant is invited to submit to the ce expiration of 3 months from the date of prity date, whichever expires later.
For further of	options, see Form PCT/	TSA/220.	•	
3. For further of	details, see notes to For	m PCT/ISA/220.		
	ng address of the ISA/ U		etion of this	Authorized officery 1000 1200 1
	op PCT, Attn: ISA/US ssioner for Patents	opinion		Jerry Lin
P O Ro	v 1450	10 Ontober 200	25 (10 10 2005)	

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Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/42027

Box N	o. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of:						
\boxtimes	the international application in the language in which it was filed					
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international aed invention, this opinion has been established on the basis of:	application and necessary to the				
a.	type of material					
	a sequence listing					
	table(s) related to the sequence listing					
b.	format of material					
	on paper					
	in electronic form	. ,				
c.	time of filing/furnishing					
	contained in the international application as filed.	:				
	filed together with the international application in electronic form.					
	furnished subsequently to this Authority for the purposes of search.	· .				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or filed or furnished, the required statements that the information in the subsequent or addit the application as filed or does not go beyond the application as filed, as appropriate, were	ional copies is identical to that in				
4. Addi	tional comments:					
		•				
	·	•				
	·					
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Form PCT/ISA/237 (Box No. V) (April 2005)

International application-blo -PCT/US04/42027

			
Box No. V Reasoned statement under Rule applicability; citations and expla	e 43 <i>bis</i> .1(a)(i anations supp) with regard to novelty, orting such statement	, inventive step or industrial
1. Statement			
	· .		YES
Novelty (N)		4-11	NO NO
	Claims	1-3, 12-17	NO
Inventive step (IS)	Claims	4-11	YES
-	Claims	1-3, 12-17	NO
Industrial continuities (IA)	Claime	. 1 17	YES
Industrial applicability (IA)	Claims	NONE	YES NO
	Claiilis	NONE	
. Citations and explanations:			,
Claims 1-3 and 12-17 lack novelty under PCT Arti	cle 33(2) as bei	ng anticipated by Imoto et al	. (US 20030219764 A1).
Imoto et al. teach a method that includes	an inferential π	odel of possible gene netwo	rks (Abstract); selecting a biologically
elevant subspace of a search space (page 1, paragipage 1, paragraph 0009; page 2, paragraph 0011):	raph 0007); cald	ulating the optimal solution	in the subspace with an algorithm es 1-2, paragraph 0010); genes relating
o a metabolic pathway of an organism (pages 1-2	, paragraph 001	0); a scoring function such a	is BRNC (pages 1-2, paragraph 0010)
storage medium or system (page 20, paragraphs	0288-0294).		
laims 1-3 and 12-17 lack an inventive step under	PCT Article 33	(3) as being obvious over Im	noto et al. (US 20030219764 A1) for
ne reasons above.			
claims 4-11 meet the criteria set out in PCT Article instant claims.	le 33(2)-(3), bed	ause the prior art does not to	each or fairly suggest the limitations of
Claims 1-17 meet the criteria set out in PCT Articl	le 33(4) and thi	is have industrial applicabilit	ry because the subject matter claimed
can be made or used in industry for the purpose of	determine gene	relationships.	.·
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application-blo . - .

PCT/US04/42027

Roy No. V	m c	ertain obse	rvations on	the inter	national a	pplication
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The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 4-12 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 4-11 are indefinite for the following reason(s):

Claims 4-11 are indefinite because they contain mathematical equations with undefined variables. For example, in instant claim 4, the variable A, G, g, etc are not defined as to what they represent.

Claim 12 is definite because it unclear to what the abbreviations BRNC, Bde, and MDL refer.

Form PCT/ISA/237 (Box No. VIII) (April 2005)